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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2	Apr 08	"Ask CAS" for self-help around the clock
NEWS 3	Apr 09	BEILSTEIN: Reload and Implementation of a New Subject Area
NEWS 4	Apr 09	ZDB will be removed from STN
NEWS 5	Apr 19	US Patent Applications available in IFICDB, IFIPAT, and IFIUDB
NEWS 6	Apr 22	Records from IP.com available in CAPLUS, HCAPLUS, and ZCAPLUS
NEWS 7	Apr 22	BIOSIS Gene Names now available in TOXCENTER
NEWS 8	Apr 22	Federal Research in Progress (FEDRIP) now available
NEWS 9	Jun 03	New e-mail delivery for search results now available
NEWS 10	Jun 10	MEDLINE Reload
NEWS 11	Jun 10	PCTFULL has been reloaded
NEWS 12	Jul 02	FOREGE no longer contains STANDARDS file segment
NEWS 13	Jul 22	USAN to be reloaded July 28, 2002; saved answer sets no longer valid
NEWS 14	Jul 29	Enhanced polymer searching in REGISTRY
NEWS 15	Jul 30	NETFIRST to be removed from STN
NEWS 16	Aug 08	CANCERLIT reload
NEWS 17	Aug 08	PHARMAMarketLetter(PHARMAML) - new on STN
NEWS 18	Aug 08	NTIS has been reloaded and enhanced
NEWS 19	Aug 19	Aquatic Toxicity Information Retrieval (AQUIRE) now available on STN
NEWS 20	Aug 19	IFIPAT, IFICDB, and IFIUDB have been reloaded
NEWS 21	Aug 19	The MEDLINE file segment of TOXCENTER has been reloaded
NEWS 22	Aug 26	Sequence searching in REGISTRY enhanced
NEWS 23	Sep 03	JAPIO has been reloaded and enhanced
NEWS 24	Sep 16	Experimental properties added to the REGISTRY file
NEWS 25	Sep 16	Indexing added to some pre-1967 records in CA/CAPLUS
NEWS 26	Sep 16	CA Section Thesaurus available in CAPLUS and CA
NEWS 27	Oct 01	CASREACT Enriched with Reactions from 1907 to 1985
NEWS 28	Oct 21	EVENTLINE has been reloaded
NEWS 29	Oct 24	BEILSTEIN adds new search fields
NEWS 30	Oct 24	Nutraceuticals International (NUTRACEUT) now available on STN
NEWS 31	Oct 25	MEDLINE SDI run of October 8, 2002
NEWS 32	Nov 18	DKILIT has been renamed APOLLIT
NEWS 33	Nov 25	More calculated properties added to REGISTRY

NEWS EXPRESS	October 14 CURRENT WINDOWS VERSION IS V6.01, CURRENT MACINTOSH VERSION IS V6.0a(ENG) AND V6.0Ja(JP), AND CURRENT DISCOVER FILE IS DATED 01 OCTOBER 2002
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS INTER	General Internet Information
NEWS LOGIN	Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 13:57:36 ON 30 NOV 2002

=> file agricola caplus biosis
COST IN U.S. DOLLARS SINCE FILE ENTRY TOTAL SESSION
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FILE 'BIOSIS' ENTERED AT 13:57:48 ON 30 NOV 2002
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=> s duckweed and transgenic
L1 15 DUCKWEED AND TRANSGENIC

=> dup rem l1
PROCESSING COMPLETED FOR L1
L2 13 DUP REM L1 (2 DUPLICATES REMOVED)

=> d 1-13 ti

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Regulation of glutamic acid decarboxylase activity in **transgenic** plants for improved .gamma.-aminobutyric acid production and tolerance of plant stress

L2 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Sequence of Douglas fir luminal binding protein gene promoter PmBiPPro1 and uses in transgene expression in plants

L2 ANSWER 3 OF 13 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
TI Transient transformation of Wolffia columbiana by particle bombardment

L2 ANSWER 4 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI **Transgenic** plants having increased methionine content due to reduction of threonine synthase activity

L2 ANSWER 5 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Expression of multiple genes in a single operon in plants and uses as insecticides and in degrading inorganic or organic metal compounds in soil and water

L2 ANSWER 6 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Adenosine phosphosulfate reductase cDNA-expressing **transgenic** plants enriched in cysteine and glutathione content

L2 ANSWER 7 OF 13 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 2
TI Genetic transformation of **duckweed** Lemna gibba and Lemna minor

L2 ANSWER 8 OF 13 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A transient transformation system for **duckweed** (Wolffia

columbiana) using Agrobacterium-mediated gene transfer.

L2 ANSWER 9 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Ligand-gated ion channel GLR4 from Arabidopsis thaliana and methods of regulating plant metabolism

L2 ANSWER 10 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Methods and compositions for production of multimeric proteins in **transgenic** plants

L2 ANSWER 11 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Methods for producing and recovering heterologous polypeptides from **transgenic** plants

L2 ANSWER 12 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Light-inducible plant nucleoside diphosphate kinase (NDK) and cloning of cDNA encoding NDK from Pisum sativum

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
TI Phytochrome regulation of transcription: biochemical and genetic approaches

=> d so

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 63 pp.
CODEN: PIXXD2

=> d pi

L2 ANSWER 1 OF 13 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002038736	A2	20020516	WO 2001-US47447	20011107

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

=> d 2 pi

L2 ANSWER 2 OF 13 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002012517	A1	20020214	WO 2000-CA941	20000817

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG

	US 6440674	B1	20020827	US 2000-632538	20000804
	AU 2000066752	A5	20020218	AU 2000-66752	20000817

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=> d 3 so

L2   ANSWER 3 OF 13  CAPLUS  COPYRIGHT 2002 ACS        DUPLICATE 1
SO   Aquatic Botany (2002), 72(2), 175-181
     CODEN: AQBODS; ISSN: 0304-3770


=> d 4 so

L2   ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2002 ACS
SO   PCT Int. Appl., 43 pp.
     CODEN: PIXXD2


=> d 4 pi

L2   ANSWER 4 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2001075130      A1   20011011       WO 2001-EP3842   20010404
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS,
             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
             RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ,
             VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG


=> d 5 pi

L2   ANSWER 5 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 2001064024      A1   20010907       WO 2001-US6276   20010228
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG


=> d 6 pi

L2   ANSWER 6 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 2001049855      A1   20010712       WO 2001-FR36     20010105
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             SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN,
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             BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     FR 2803484          A1   20010713       FR 2000-139      20000106
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     EP 1244792        A1   20021002       EP 2001-903880   20010105
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR


=> d  pi

L2   ANSWER 1 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
     ---------------   ----  --------       ---------------  --------
PI   WO 2002038736     A2    20020516       WO 2001-US47447  20011107
         W:  AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN,
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             GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
             LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA,
             UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY,
             DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF,
             BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG


=> d 8 pi

L2   ANSWER 8 OF 13  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.


=> d 8 so

L2   ANSWER 8 OF 13  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
SO   Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.
     print.
     ISSN: 0949-5460.


=> d 9 so

L2   ANSWER 9 OF 13  CAPLUS  COPYRIGHT 2002 ACS
SO   PCT Int. Appl., 54 pp.
     CODEN: PIXXD2


=> d 9 pi

L2   ANSWER 9 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 2000052137     A2    20000908       WO 2000-US5407   20000302
     WO 2000052137     A3    20010215
         W:  AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU,
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             IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA,
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             SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM,
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         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
             DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF,
             CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 2000038630     A5    20000921       AU 2000-38630    20000302
     EP 1158849        A2    20011205       EP 2000-917697   20000302
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO


=> d 10 pi
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L2   ANSWER 10 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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PI   WO 9949024         A2   19990930      WO 1999-US6506   19990324
     WO 9949024         A3   19991125
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
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             KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN,
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             TJ, TM
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             CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9931152          A1   19991018      AU 1999-31152    19990324


=> d 11 pi

L2   ANSWER 11 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
     ---------------   ----  --------      ---------------  --------
PI   WO 9938990         A1   19990805      WO 1999-US2071   19990129
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
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             TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU,
             TJ, TM
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             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     US 6096546          A    20000801      US 1998-15605    19980130
     CA 2319732          AA   19990805      CA 1999-2319732  19990129
     AU 9925701          A1   19990816      AU 1999-25701    19990129
     EP 1049792          A1   20001108      EP 1999-905568   19990129
         R:  AT, BE, CH, DE, DK, ES, FR, GB, IT, LI, NL, SE, PT, FI
     JP 2002501755       T2   20020122      JP 2000-529448   19990129


=> d 12 pi

L2   ANSWER 12 OF 13  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE          APPLICATION NO.  DATE
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PI   JP 09252781        A2   19970930      JP 1996-90623    19960319


=> d 13 pi

L2   ANSWER 13 OF 13  CAPLUS  COPYRIGHT 2002 ACS


=> d 13 so

L2   ANSWER 13 OF 13  CAPLUS  COPYRIGHT 2002 ACS
SO   NATO ASI Series, Series H:  Cell Biology (1991), 50(Phytochrome Prop.
     Biol. Action), 167-79
     CODEN: NASBE4; ISSN: 1010-8793


=> d 12 ab

L2   ANSWER 12 OF 13  CAPLUS  COPYRIGHT 2002 ACS
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AB Red light-inducible plant nucleoside diphosphate kinase (NDK) is purified from rice (Oryza sativa) and other plants. Light-induced phosphorylation of the 15-kDa NDK is obsd. in Oryza sativa, Pisum sativum strain Alaska, Arabidopsis thaliana, Triticum aestivum, and Hordeum vulgare. The cDNA encoding NDK is also isolated from P. sativum and its amino acid sequence deduced. Existence of the NDK-coding gene is also obsd. in a wide range of monocots and dicots. The gene can be used for breeding **transgenic** plants with improved productivity and quality.

=> d 13 ab

L2 ANSWER 13 OF 13 CAPLUS COPYRIGHT 2002 ACS
AB Phytochrome-regulated expression of reporter genes attached to Lemna gibba phytochrome-regulated promoters was obsd. after Agrobacterium-mediated transformation of tobacco and biolistic transformation of Lemna fronds. The regulation of gene expression by phytochrome in L. gibba and Arabidopsis is reviewed.

=> s lemnaceae and transform?
L3 26 LEMNACEAE AND TRANSFORM?

=> dup rem l3
PROCESSING COMPLETED FOR L3
L4 26 DUP REM L3 (0 DUPLICATES REMOVED)

=> d 1-10 ti

L4 ANSWER 1 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Transient **transformation** of Wolffia columbiana by particle bombardment.

L4 ANSWER 2 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytotoxicity and ultrastructural effects of gymnopusin from the orchid Maxillaria densa on duckweed (Lemna pausicostata) frond and root tissues.

L4 ANSWER 3 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytoremediation kinetics: Removal of 2,4,5-trichlorophenol with Lemna minor.

L4 ANSWER 4 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetic **transformation** of duckweed Lemna gibba and Lemna minor.

L4 ANSWER 5 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A transient **transformation** system for duckweed (Wolffia columbiana) using Agrobacterium-mediated gene transfer.

L4 ANSWER 6 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetically engineered duckweed.

L4 ANSWER 7 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake and phytotransformation of o,p'-DDT and p,p'-DDT by axenically cultivated aquatic plants.

L4 ANSWER 8 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake and phytotransformation of organophosphorus pesticides by axenically cultivated aquatic plants.

L4 ANSWER 9 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Phytotransformations of perchlorate contaminated waters.

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Comparison between algae-based and duckweed-based wastewater treatment: Differences in environmental conditions and nitrogen

transformations.

=> d 6 pi

L4 ANSWER 6 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
PI US 6040498 March 21, 2000

=> d 10 so

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
SO Water Science and Technology, (2000) Vol. 42, No. 10-11, pp. 215-222. print.
ISSN: 0273-1223.

=> d 10 ab

L4 ANSWER 10 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB In laboratory-scale batch experiments, duckweed (Limna gibba)-based and algae-based wastewater containers have been monitored over 15 days in two experiments with different initial total nitrogen concentrations of 50 (experiment 1) and 100 mg-N/L (experiment 2). Clear differences in environmental conditions were observed. High dissolved oxygen (DO) concentrations were observed in the algae-based, compared to duckweed-based, containers. In the algae-based containers the DO range was between 2.1 to 6.6 mg/L and 1.2 to 4.3 mg/L in experiment 1 and 2, respectively, whereas in the duckweed-based containers DO ranged between 1.1 to 3 mg/l and 0.5 to 2.1 mg/L. Higher pH values were measured in algae-based due to algal photosynthetic activity compared to duckweed-based containers where the duckweed mat prevented sunlight penetration and hence algal development. In algae-based containers, the pH range was 7.9 to 8.6 and 8.1 to 8.4 in experiments 1 and 2, respectively, and 7.3 to 7.5 and 7 to 7.6 in the duckweed-based containers. Depending on initial nitrogen concentrations, duckweed-based containers removed between 42%-62% of total nitrogen and between 56%-95% of Kjeldahl nitrogen from the wastewater, while algae-based containers removed between 45%-48% and 48%-58% of total nitrogen and Kjeldahl nitrogen, respectively. Nitrogen loss, probably due to denitrification and ammonia volatilisation, represents 40% of the total nitrogen content of algae-based and duckweed-based containers. However, in duckweed-based containers only 28% of N-loss was observed in containers with higher initial N-content. This study demonstrates that there were differences in environmental conditions in algae-based and duckweed-based containers, which have caused differences in nitrogen **transformation** mechanisms.

=> d 11-20 ti

L4 ANSWER 11 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Uptake kinetics of 99Tc in common duckweed.

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2002 ACS
TI Methods for the genetic **transformation** of **Lemnaceae** with Agrobacterium tumefaciens

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2002 ACS
TI Use of transgenic vascular aquatic plants as expression hosts in the manufacture of novel metabolites

L4 ANSWER 14 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Elimination of phenol by two aquatic plants: Juncus fontanesii (Gay) and Lemna minor L.

L4 ANSWER 15 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Trifluoroacetate, an atmospheric breakdown product of hydrofluorocarbon refrigerants: Biomolecular fate in aquatic organisms.

L4 ANSWER 16 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI The toxicity of the herbicide metolachlor, some **transformation** products and a commercial safener to an alga (Selenastrum capricornutum), a cyanophyte (Anabaena cylindrica) and a macrophyte (Lemna gibba.

L4 ANSWER 17 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Present vegetation of the Po plain in Lombardy.

L4 ANSWER 18 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Utilisation of macrophytes in unconventional sewage treatment plants.

L4 ANSWER 19 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Allozymic variation in local apomictic populations of Lemna minor (**Lemnaceae**.

L4 ANSWER 20 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI UNCOMMON TYPE OF HYDROXYLATION OF 3-ALKENYL-SUBSTITUTED DERIVATIVES OF CITRONELLOL AND CITRONELLIC ACID BY SPIRODELA-PUNCTATA.

=> d 12 so

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

=> d 12 pi

L4 ANSWER 12 OF 26 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919497	A1	19990422	WO 1997-IL328	19971010
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
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	AU 9745703	A1	19990503	AU 1997-45703	19971010
	CA 2312008	AA	19990422	CA 1998-2312008	19981008
	WO 9919498	A1	19990422	WO 1998-IL487	19981008
	W: AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9894572	A1	19990503	AU 1998-94572	19981008
	EP 1021552	A1	20000726	EP 1998-947760	19981008
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				

=> d 13 pi

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	DE 19629402	A1	19980205	DE 1996-19629402	19960720
	DE 19629402	C2	19980514		

=> d 13 ab

L4 ANSWER 13 OF 26 CAPLUS COPYRIGHT 2002 ACS
AB The use of transgenic vascular water plants as expression hosts for the manuf. of metabolites or macromols. is described. These plants can be grown in fermentors. The preferred hosts are plants of the genus Wolffia, esp. Wolffia arrhiza.

=> d 21-26 ti

L4 ANSWER 21 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI D1-D2 CYTOCHROME B559 COMPLEX FROM THE AQUATIC PLANT SPIRODELA-OLIGORRHIZA CORRELATION BETWEEN COMPLEX INTEGRITY SPECTROSCOPIC PROPERTIES PHOTOCHEMICAL ACTIVITY AND PIGMENT COMPOSITION.

L4 ANSWER 22 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI **TRANSFORMATION** OF ANDROSTANE DERIVATIVES BY SPIRODELA-OLIGORRHIZA.

L4 ANSWER 23 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI TRANSCRIPTION OF AN ARTIFICIAL RIBOSOMAL RNA GENE IN YEAST.

L4 ANSWER 24 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI EVIDENCE FOR UPTAKE OF PLASMID DNA INTO INTACT PLANTS LEMNA-PERPUSILLA PROVED BY AN ESCHERICHIA-COLI K-12 **TRANSFORMATION** ASSAY.

L4 ANSWER 25 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI THE EFFECT OF GALACTOSE ON THE GROWTH OF LEMNA-GIBBA.

L4 ANSWER 26 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI CLASSIFICATION OF LAKES IN SOUTHERN SWEDEN ON THE BASIS OF THEIR MACROPHYTE COMPOSITION BY MEANS OF MULTI VARIATE METHODS.

=> d 22 ab

L4 ANSWER 22 OF 26 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
AB Spirodela oligorrhiza (duckweed) is capable of **transforming** some steroids of the androstane series. Hydrolysis of the acetates of testosterone and of 3.beta.-hydroxyandrost-5-en-17-one by this species yielded the corresponding alcohols. Further **transformation** of testosterone and reduction of androst-4-ene-3,17-dione indicated the interconversion of the hydroxyl-ketone function on C-17 and reduction of the .DELTA.4-double bond to the trans-A/B system. Only a trace amount of 3.beta.-hydroxyandrost-5-en-17-one-underwent further **transformation**.

=> s (duckweed or lemnaceae) and agrobacterium
L5 9 (DUCKWEED OR LEMNACEAE) AND AGROBACTERIUM

=> dup rem l5
PROCESSING COMPLETED FOR L5
L6 8 DUP REM L5 (1 DUPLICATE REMOVED)

=> d 1-8 ti

L6 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2002 ACS

TI Immunoglobulin binding protein arrays in plant cells

L6 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2002 ACS DUPLICATE 1
TI Genetic transformation of **duckweed** Lemna gibba and Lemna minor

L6 ANSWER 3 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI A transient transformation system for **duckweed** (Wolffia columbiana) using **Agrobacterium**-mediated gene transfer.

L6 ANSWER 4 OF 8 BIOSIS COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
TI Genetically engineered **duckweed**.

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Methods for the genetic transformation of **Lemnaceae** with **Agrobacterium** tumefaciens

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Transformation of **duckweed** (Lemna) plants with ballistic bombardment, electroporation, or **Agrobacterium** vectors

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Simple (bench-top) bioassays and the isolation of new chemically diverse antitumor and pesticidal agents from higher plants

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
TI Phytochrome regulation of transcription: biochemical and genetic approaches

=> d 8 so

L6 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO NATO ASI Series, Series H: Cell Biology (1991), 50(Phytochrome Prop. Biol. Action), 167-79
CODEN: NASBE4; ISSN: 1010-8793

=> d 7 so

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO Recent Advances in Phytochemistry (1999), 33(Phytochemicals in Human Health Protection, Nutrition and Plant Defense), 89-132
CODEN: RAPHBE; ISSN: 0079-9920

=> d 7 ab

L6 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2002 ACS
AB A review with 132 refs. Four simple (bench-top) bioassays are serving well for the detection and fractionation monitoring of new plant antitumor and pesticidal agents. These are: (1) lethality to the larvae of brine shrimp (Artemia salina); (2) the inhibition of crown gall tumors, induced by plasmid transfer and expression from **Agrobacterium** tumefaciens, on disks of potato (Solanum tuberosum) tubers; (3) the inhibition or stimulation of frond proliferation of **duckweed** (Lemna minor); and (4) lethality to the larvae of yellow fever mosquitoes (Aedes aegyptii). Since 1984, over 320 chem. diverse bioactive plant components have been isolated and characterized in our lab. by using these methods. Recently, bioactive compds. from the Meliaceae, Lauraceae, Euphorbiaceae, Laminaceae, and other plant families have been isolated, but our most exciting leads have been with the potent acetogenins from the Annonaceae; these compds. are powerful inhibitors of mitochondrial electron transport systems and of the NADH oxidase that is prevalent in the plasma membranes of tumorous cells. The consequence is ATP depletion, and this is esp. toxic to multiple drug resistant tumor cells and

pesticide resistant insects that possess ATP-dependent xenobiotic efflux systems. Structural activity relationship studies (in mitochondrial prepns. and against mosquito larvae) help to define the optimum structural features. This paper has presented the chem. and biol. testing results of 207 plant components recently isolated using the simple bioassays described followed by cytotoxicity testing in a panel of six human tumor cell lines.

=> d 6 so

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 106 pp.
CODEN: PIXXD2

=> d 6 pi

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9907210	A1	19990218	WO 1998-US16683	19980811
	W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, GH, GM, HR, HU, ID, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, SL, TJ, TM, TR, TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, GM, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	AU 9887799	A1	19990301	AU 1998-87799	19980811
	US 6040498	A	20000321	US 1998-132536	19980811
	EP 1037523	A1	20000927	EP 1998-939350	19980811
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
	JP 2001513325	T2	20010904	JP 2000-506820	19980811

=> d 6 ab

L6 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2002 ACS
AB Methods and compns. are provided for the efficient transformation of **duckweed** by either ballistic bombardment, electroporation, or **Agrobacterium**. In this manner, any gene or nucleic acid of interest can be introduced and expressed in **duckweed** plants. Transformed **duckweed** plants, cells, tissues are also provided. Transformed **duckweed** plant tissue culture and methods of producing recombinant proteins and peptides from transformed **duckweed** plants are also disclosed.

=> d 5 so

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS
SO PCT Int. Appl., 58 pp.
CODEN: PIXXD2

=> d 5 pi

L6 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2002 ACS

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9919497	A1	19990422	WO 1997-IL328	19971010

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             KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
             US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
             GN, ML, MR, NE, SN, TD, TG
     AU 9745703        A1   19990503       AU 1997-45703    19971010
     CA 2312008        AA   19990422       CA 1998-2312008  19981008
     WO 9919498        A1   19990422       WO 1998-IL487    19981008
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             KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW,
             MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR,
             TT, UA, UG, US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI,
             CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
     AU 9894572        A1   19990503       AU 1998-94572    19981008
     EP 1021552        A1   20000726       EP 1998-947760   19981008
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO


=> d 4 pi

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PI   US 6040498 March 21, 2000


=> d 3 so

L6   ANSWER 3 OF 8  BIOSIS  COPYRIGHT 2002 BIOLOGICAL ABSTRACTS INC.
SO   Journal of Applied Botany, (August, 2001) Vol. 75, No. 3-4, pp. 107-111.
     print.
     ISSN: 0949-5460.


=> s l6 and copper
L7            0 L6 AND COPPER

=> s l6 and booster
L8            1 L6 AND BOOSTER

=> d ti

L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
TI   Methods for the genetic transformation of Lemnaceae with
     Agrobacterium tumefaciens


=> d pi

L8   ANSWER 1 OF 1  CAPLUS  COPYRIGHT 2002 ACS
     PATENT NO.        KIND  DATE           APPLICATION NO.  DATE
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PI   WO 9919497        A1   19990422       WO 1997-IL328    19971010
         W:  AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE,
             DK, EE, ES, FI, GB, GE, GH, HU, ID, IL, IS, JP, KE, KG, KP, KR,
             KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ,
             PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, UA, UG,
             US, UZ, VN, YU, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
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             GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA,
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